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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=1; day=3; hr=16; min=7; sec=4; ms=3;]

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Application No: 10517392 Version No: 1.0

Input Set:

Output Set:

Started: 2007-12-11 13:09:18.327
Finished: 2007-12-11 13:09:21.016
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 689 ms
Total Warnings: 21
Total Errors: 17
No. of SeqIDs Defined: 21
Actual SeqID Count: 21

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
E 257	Invalid sequence data feature in <221> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
E 257	Invalid sequence data feature in <221> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 257	Invalid sequence data feature in <221> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
E 257	Invalid sequence data feature in <221> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
E 257	Invalid sequence data feature in <221> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
E 257	Invalid sequence data feature in <221> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
E 257	Invalid sequence data feature in <221> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
E 257	Invalid sequence data feature in <221> in SEQ ID (12)

Input Set:

Output Set:

Started: 2007-12-11 13:09:18.327
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Total Warnings: 21
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No. of SeqIDs Defined: 21
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Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
E 257	Invalid sequence data feature in <221> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
E 257	Invalid sequence data feature in <221> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
E 257	Invalid sequence data feature in <221> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
E 257	Invalid sequence data feature in <221> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
E 257	Invalid sequence data feature in <221> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
E 257	Invalid sequence data feature in <221> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
E 257	Invalid sequence data feature in <221> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20) This error has occurred more than 20 times, will not be displayed
E 257	Invalid sequence data feature in <221> in SEQ ID (20)
E 257	Invalid sequence data feature in <221> in SEQ ID (21)

SEQUENCE LISTING

<110> BOTTI, PAOLO
VILLAIN, MATTEO
MANGANIELLO, SONIA
GAERTNER, HUBERT

<120> CARBOXY PROTECTION STRATEGIES FOR ACIDIC C-TERMINAL
AMINO ACIDS IN CHEMICAL LIGATION OF OLIGOPEPTIDES

<130> 0949-UTL-GP

<140> 10517392

<141> 2007-12-11

<150> PCT/IB03/05473

<151> 2003-06-09

<150> 60/387,825

<151> 2002-06-10

<160> 21

<170> PatentIn Ver. 3.3

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1

Asp Lys Leu Leu Met

1 5

<210> 2

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<220>

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<222> (7)

<223> Leu-Pam

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Tyr Ala Lys Tyr Ala Lys Leu

1 5

<210> 3
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (5)
<223> Asp(Mop)

<400> 3
Leu Tyr Arg Ala Asp Cys Ser Tyr Arg Phe Leu
1 5 10

<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (5)
<223> Asp-thioester

<400> 4
Leu Tyr Arg Ala Asp
1 5

<210> 5
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (5)
<223> Glu-thioester

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Leu Tyr Arg Ala Glu
1 5

<210> 6
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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Cys Ser Tyr Arg Phe Leu
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<210> 7
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 7
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1 5 10

<210> 8
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 8
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<210> 9
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<220>
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<223> Asp(beta)

<400> 9

Leu Tyr Arg Ala Asp Cys Ser Tyr Arg Phe Leu

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<210> 10

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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<221> MOD_RES

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<223> Glu(γ)

<400> 10

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1 5 10

<210> 11

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (5)

<223> Glu(OFm)-thioester

<400> 11

Leu Tyr Arg Ala Glu

1 5

<210> 12

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (5)

<223> Glu(OPse)-thioester

<400> 12

Leu Tyr Arg Ala Glu

1 5

<210> 13

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (5)

<223> Glu(OPse)

<400> 13

Leu Tyr Arg Ala Glu Cys Ser Tyr Arg Phe Leu

1 5 10

<210> 14

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (5)

<223> Glu(OFm)

<400> 14

Leu Tyr Arg Ala Glu Cys Ser Tyr Arg Phe Leu

1 5 10

<210> 15

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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peptide

<220>

<221> MOD_RES

<222> (1)

<223> Fmoc-Asp(Troc)

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Asp Tyr Ala Lys Tyr Ala Lys Leu

1 5

<210> 16

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (1)

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1 5

<210> 17

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (1)

<223> Ac-Asp(OMop)

<400> 17

Asp Tyr Ala Lys Tyr Ala Lys Leu

1 5

<210> 18

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (1)

<223> Ac-Asp(diMeOPac)

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Asp Tyr Ala Lys Tyr Ala Lys Leu

1 5

<210> 19

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

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peptide

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<221> MOD_RES

<222> (5)

<223> Asp(Mop)-sr

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Leu Tyr Arg Ala Asp

1 5

<210> 20

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (5)

<223> Asp(alpha)

<400> 20

Leu Tyr Arg Ala Asp Cys Ser Tyr Arg Phe Leu

1 5 10

<210> 21

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (5)

<223> Asp(OMop)

<400> 21

Leu Tyr Arg Ala Asp Cys Ser Tyr Arg Phe Leu

1

5

10